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FILE INFO

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DIAMC 15099 DEC 69

OPCEN FOR

REFERENCE DIAMC MSG CITE 14841, DTG 281812Z NOV 69.

THE FOLLOWING REPLY FROM NRO IS FORWARDED FOR YOUR INFORMATION:

" A STUDY HAS BEEN PREPARED IN RESPONSE TO YOUR REQUEST REGARDING THE ABILITY OF THE KH-4B SYSTEM TO SATISFY CRITICAL GAP AREAS WITHIN

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THE MC&G REQUIREMENT AREA. THESE AREAS ARE SMALL ISOLATED PATCHES OR SLIVERS OF TERRITORY

AS DEFINED BY YOUR OFFICE. THESE AREAS

TOTAL 13,360 LINEAR NAUTICAL MILES NORTH-SOUTH DISTANCE (IN-TRACK).

THESE AREAS WILL BE HENCEFORTH REFERRED TO COLLECTIVELY AS AREA "A".

AREA "B" IS DEFINED AS AREA "A" LESS THOSE REGIONS NOW POLITICALLY

DIA and NRO review(s) completed.

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OPEN AND THOSE REGIONS HAVEING POTENTIAL FOR AIRCRAFT PHOTOGRAPHY DURING THE NEXT TWO YEARS. AREA "B", AS DEFINED BY YOUR OFFICE, AMOUNT TO 5,280 LINEAR NAUTICAL MILES IN-TRACK DISTANCE.

THE STUDY HAS DETERMINED IN APPROXIMATE FIGURES THE AMOUNTS OF AREAS "A" AND "B" WHICH COULD BE SATISFIED OVER A ONE-YEAR PERIOD OF FIVE MISSIONS, IF FILM WERE ALLOCATED FOR THIS PURPOSE IN AMOUNTS OF FIVE PER CENT, TEN PERCENT, TWENTY PERCENT, FORTY PERCENT, SIXTY PERCENT AND THE SPECIAL CASE OF NO LIMIT ON FILM CONSUMPTION. THESE FIGURES ARE AS FOLLOWS:

PERCENT

PERCENT OF AREA COVERAGE SATISFIED

FILM USE

AREA "A"

AREA "B"

5	13.3	34.1
10	23.9	45.5
20	41.6	79.5
30.8	NO DATA	82.5
40	58.4	NO DATA
60	75.2	NO DATA
98.5	81.1	NO DATA

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THE FILM PERCENTAGE FIGURES ABOVE OF 98.5 AND 30.8 REPRESENT THE MAXIMUM AMOUNTS OF FILM THAT COULD BE EXPENDED ON AREAS "A" AND "B" RESPECTIVELY. THIS FILM EXPENDITURE LIMIT IS IMPOSED BY THE NUMBER OF GEOMETRICAL ACQUISITIONS TO A GIVEN AREA IN A YEAR. ALL FILM PERCENTAGE FIGURES ARE BASED ON THE TOTAL ANNUAL STANDARD THIN-BASE FILMLOAD.

CAMERA OPERATIONS WERE OPTIMIZED TO TAKE MAXIMUM ADVANTAGE OF CLIMATOLOGY DURING THE YEAR AND TO OBTAIN THE MOST LINEAR MILEAGE FOR THE LEAST AMOUNT OF FILM FIRST, BEFORE EXPENDING LARGER AMOUNTS OF FILM FOR THE POORER WEATHER REGIONS. PERCENTAGES OF AREA SATISFACTION REFLECT COMPLETE SATISFACTION OF CLUSTERS OF SLIVERS AND PATCHES, RATHER THAN AN OVER-ALL SATISFACTION LEVEL OF AREA "A" OR "B". FOR EXAMPLE, FOR 5 PERCENT OF THE FILMLOAD,

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WOULD BE SATISFIED, AMOUNTING TO 13.3 AND 34.1 PERCENT OF AREAS "A" AND "B", RESPECTIVELY.

IT IS MOST IMPORTANT THAT THESE FIGURES NOT BE MISUSED. FOR EXAMPLE, IF 10 PERCENT OF THE FILM IS ALLOCATED FOR A TWO YEAR PERIOD, ONE CANNOT EXPECT 23.9 PERCENT SATISFACTION EACH YEAR OR 41.6 PERCENT FOR BOTH YEARS IN AREA "A".

CLASSIFIED MESSAGE  
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THERE IS NO COMPLETE WORLD-WIDE CLIMATOLOGICAL FILE, ALTHOUGH ONE IS BEING DEVELOPED BY ETAC. MUCH OF THE CLIMATOLOGICAL DATA USED HERE WAS BASED ON WEATHER DATA REPRESENTATIVE OF THE AREAS UNDER STUDY. OFTEN THE DATA IS IN DIFFERENT TERMINOLOGY AND FOR VARIOUS TIMES OF DAY. THEREFORE, IT SHOULD BE RECOGNIZED THAT THE FIGURES PROVIDED ARE APPROXIMATE ONES. THE FIGURES PROVIDED ABOVE WILL BE REFINED AND RESUBMITTED ON 8 DECEMBER. THE NEW FIGURES WILL REFLECT MORE RELIABLE CLIMATOLOGICAL DATA, WHICH IS NOT NOW AVAILABLE.

THIS MSG CONFIRMS THAT DATA PROVIDED BY THE SOC TO  
ON 2 DECEMBER." GP-1

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